

# Transfer Function 6000 feet 26 AWG telephone cable

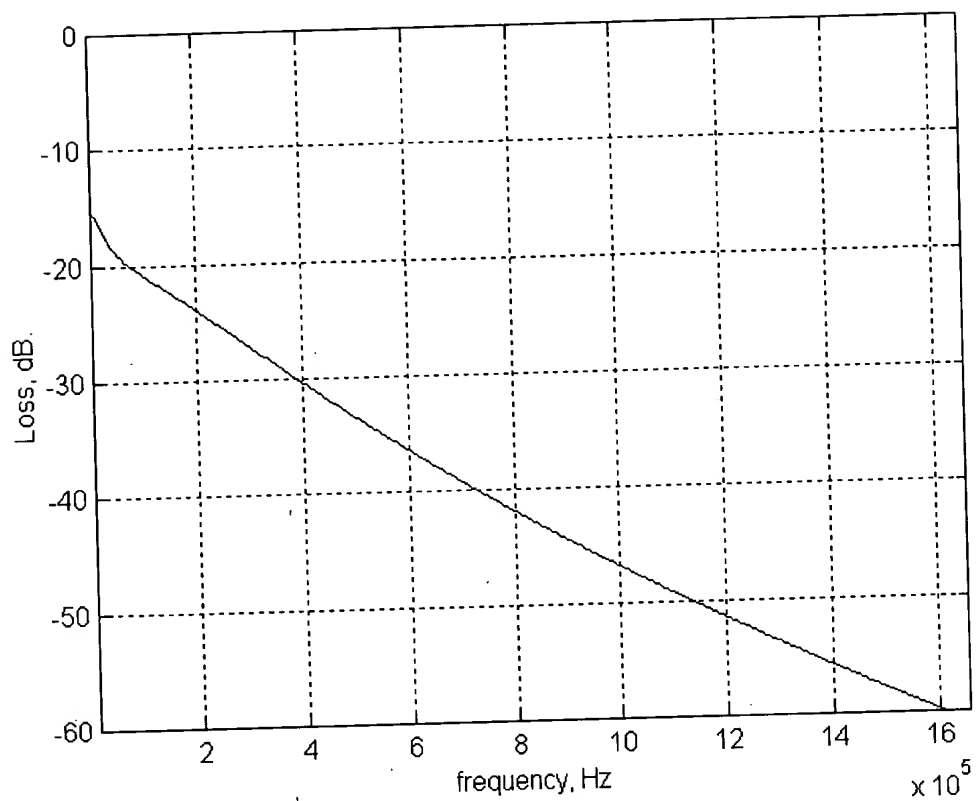


FIG. 1

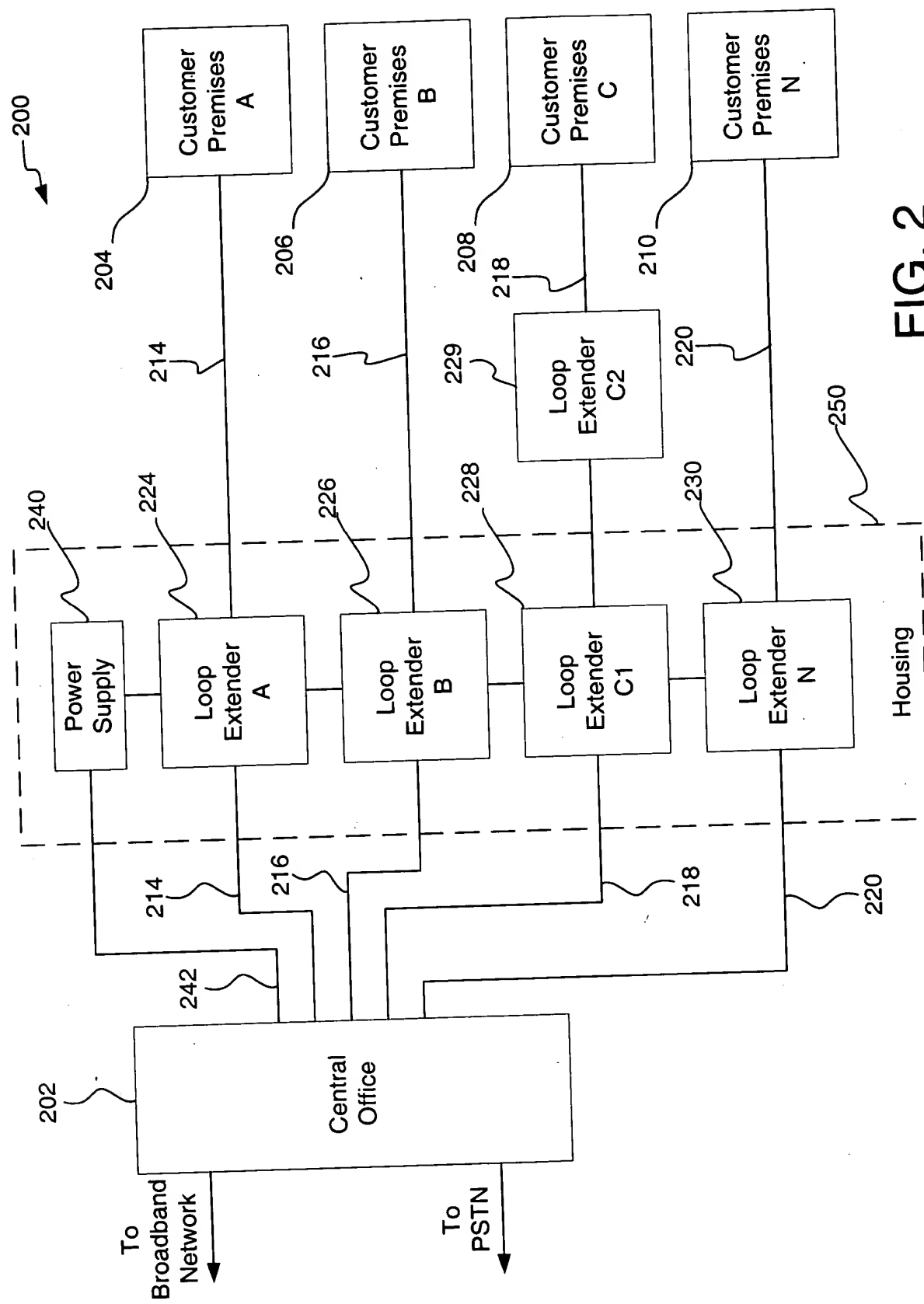


FIG. 3

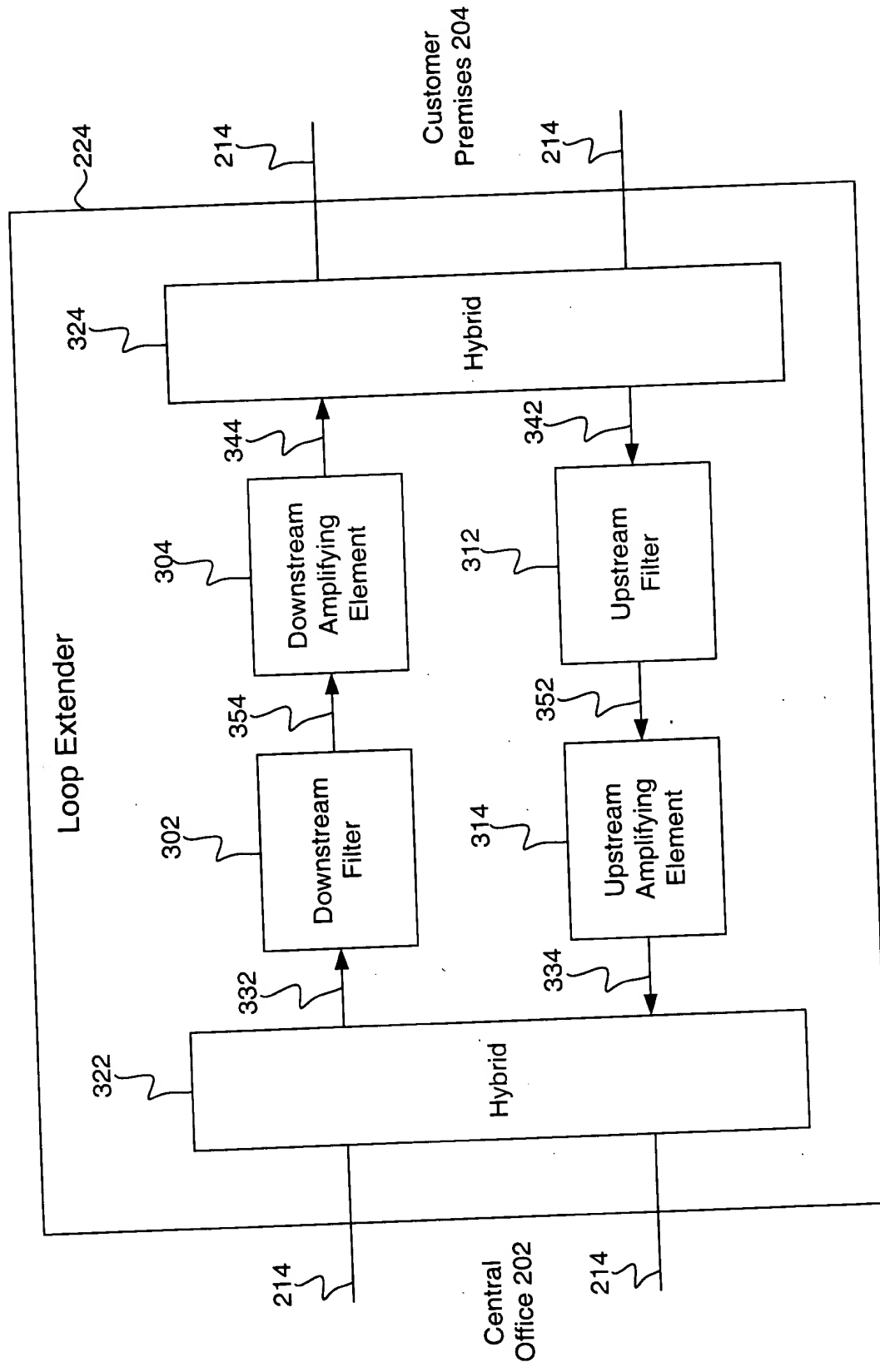


FIG. 3

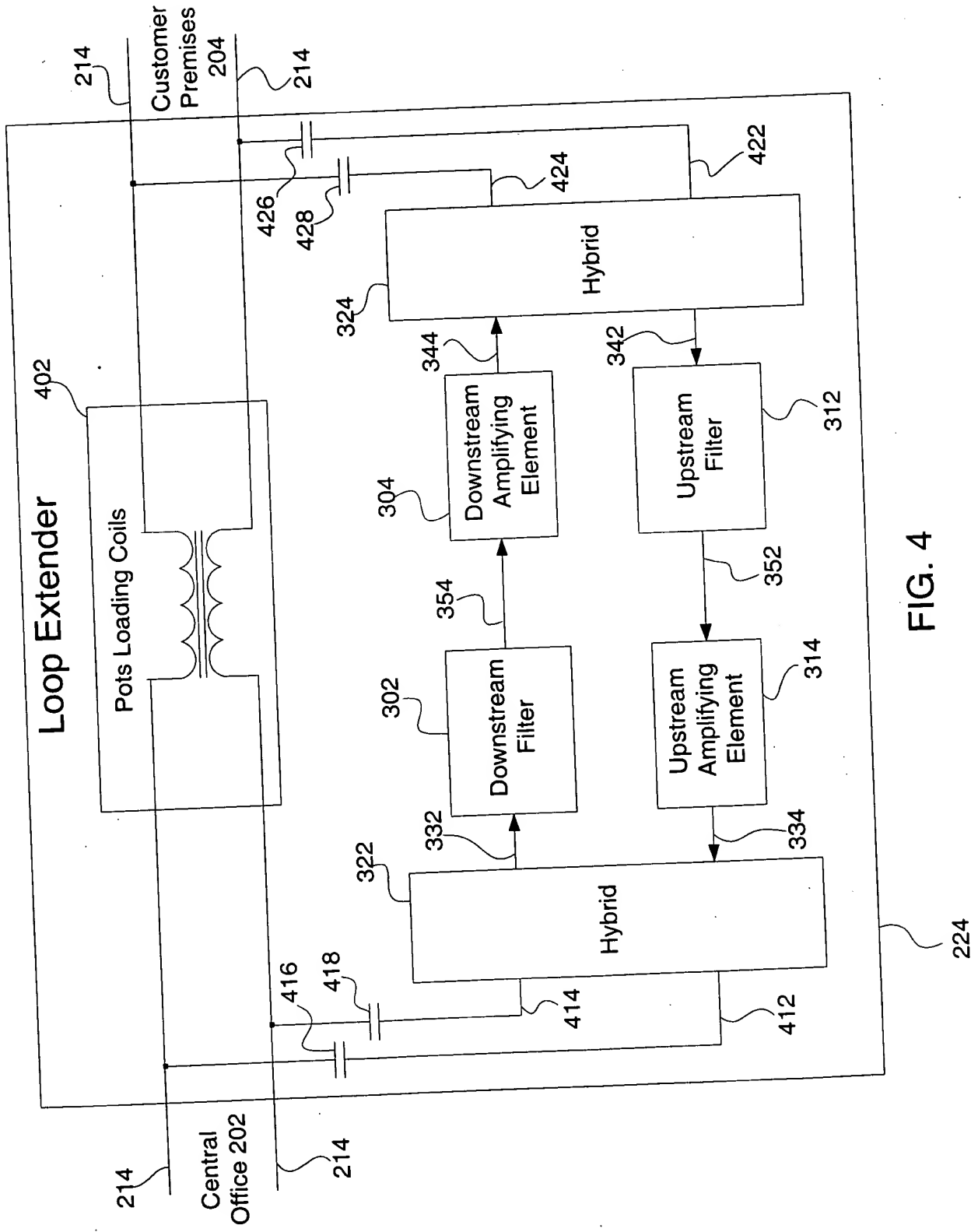


FIG. 4

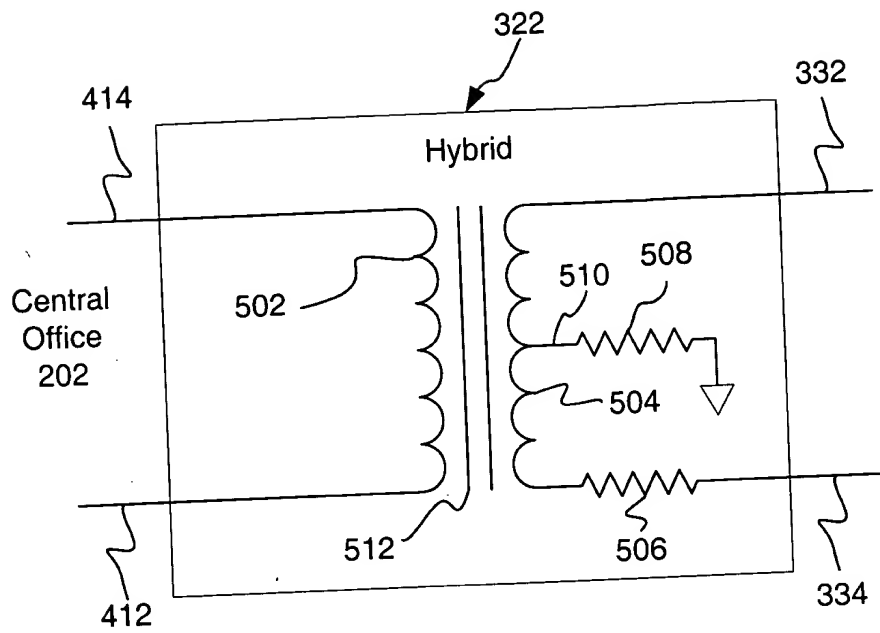


FIG. 5

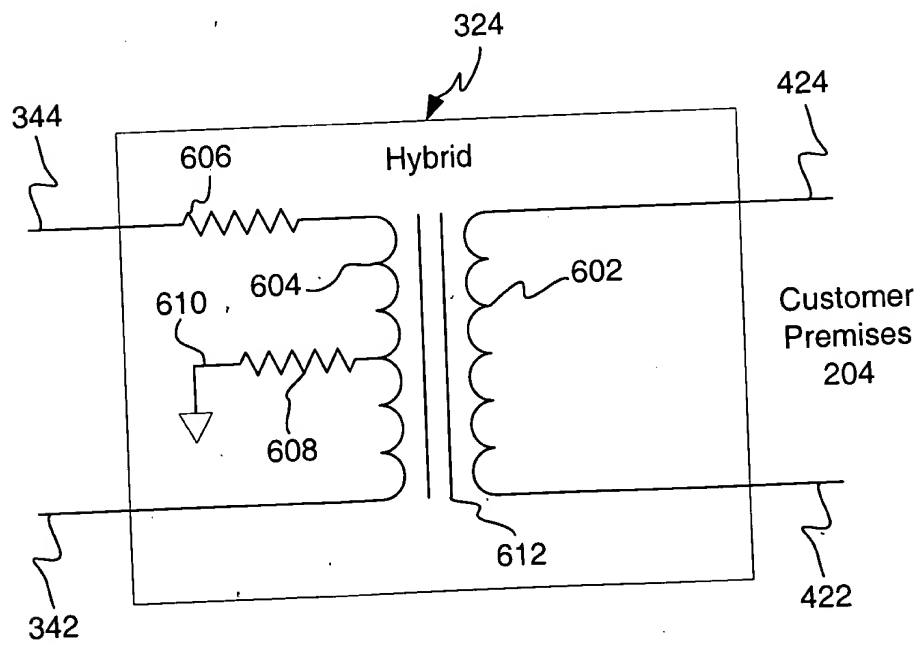


FIG. 6

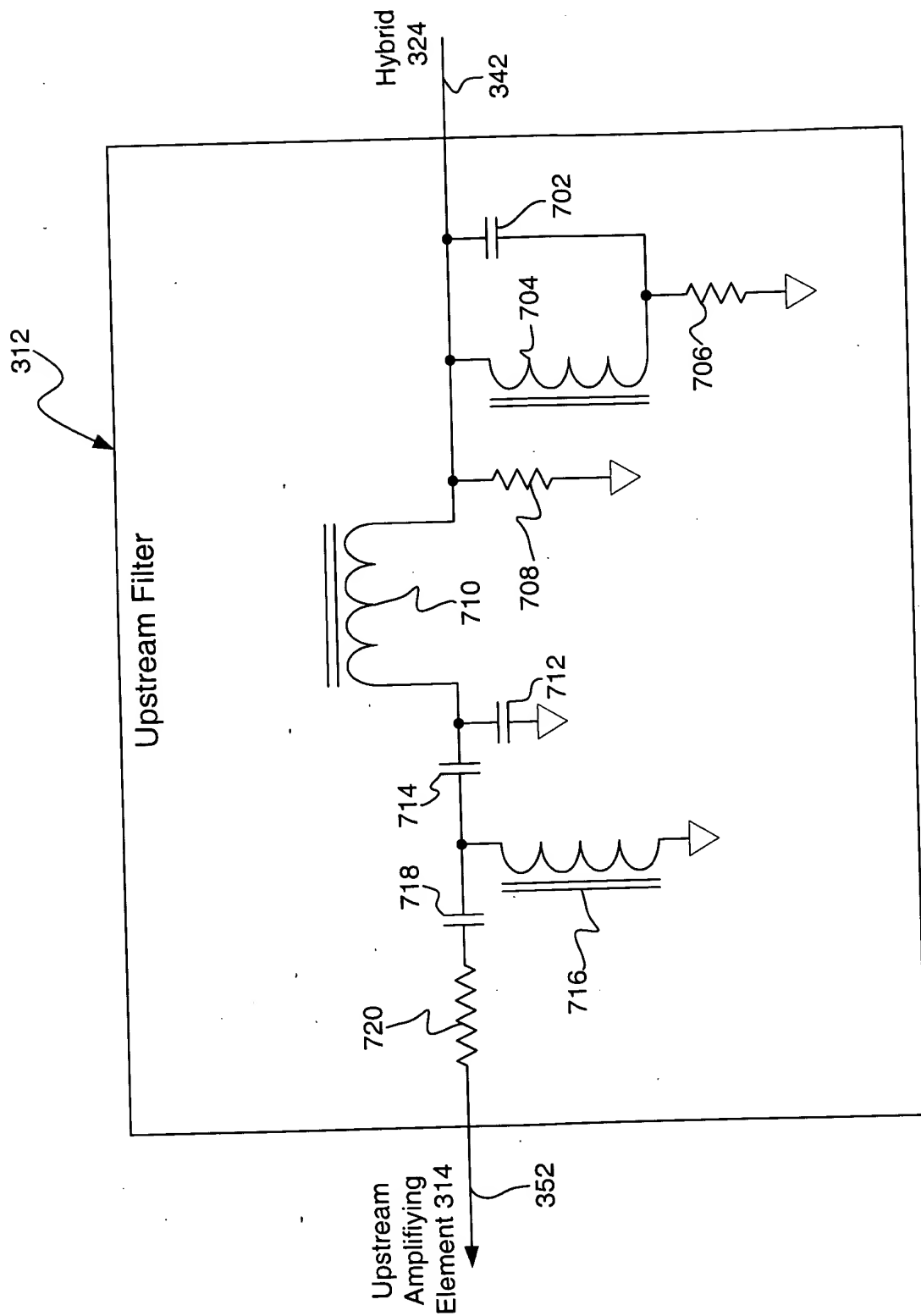


FIG. 7

# Upstream Filter

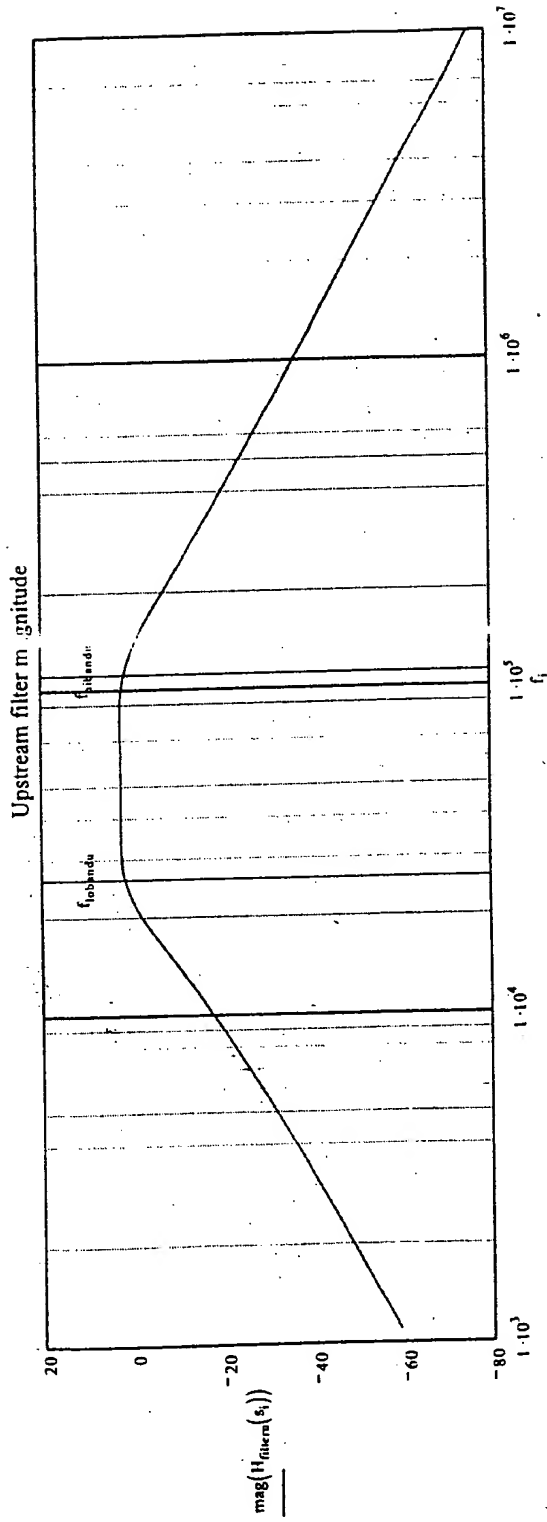


FIG. 8

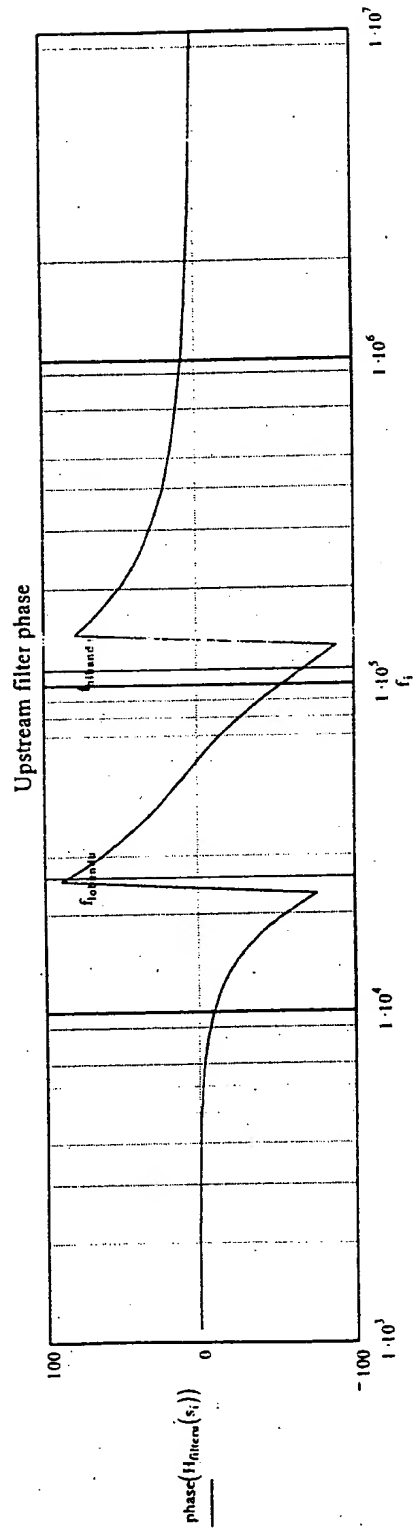


FIG. 9

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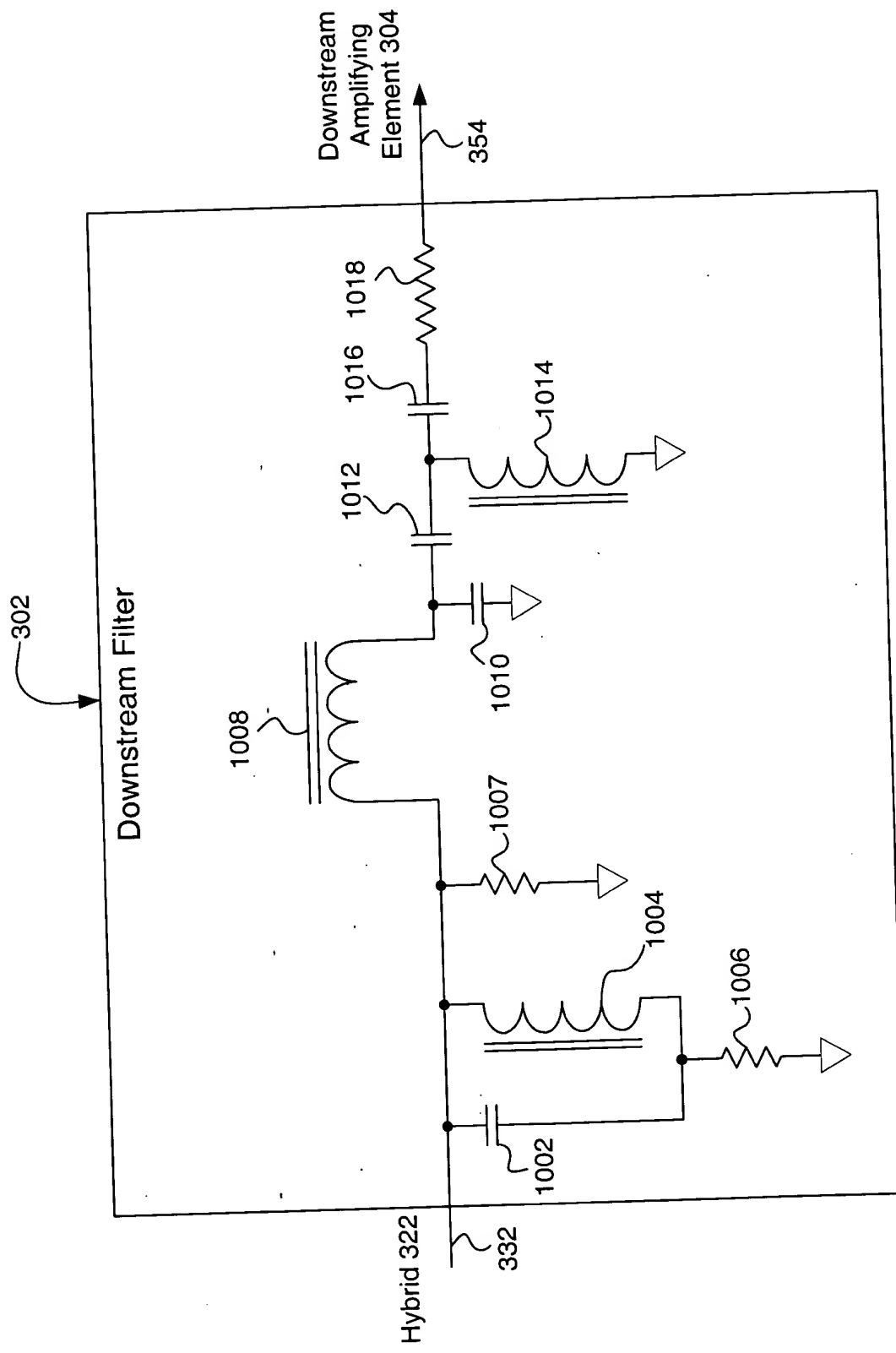
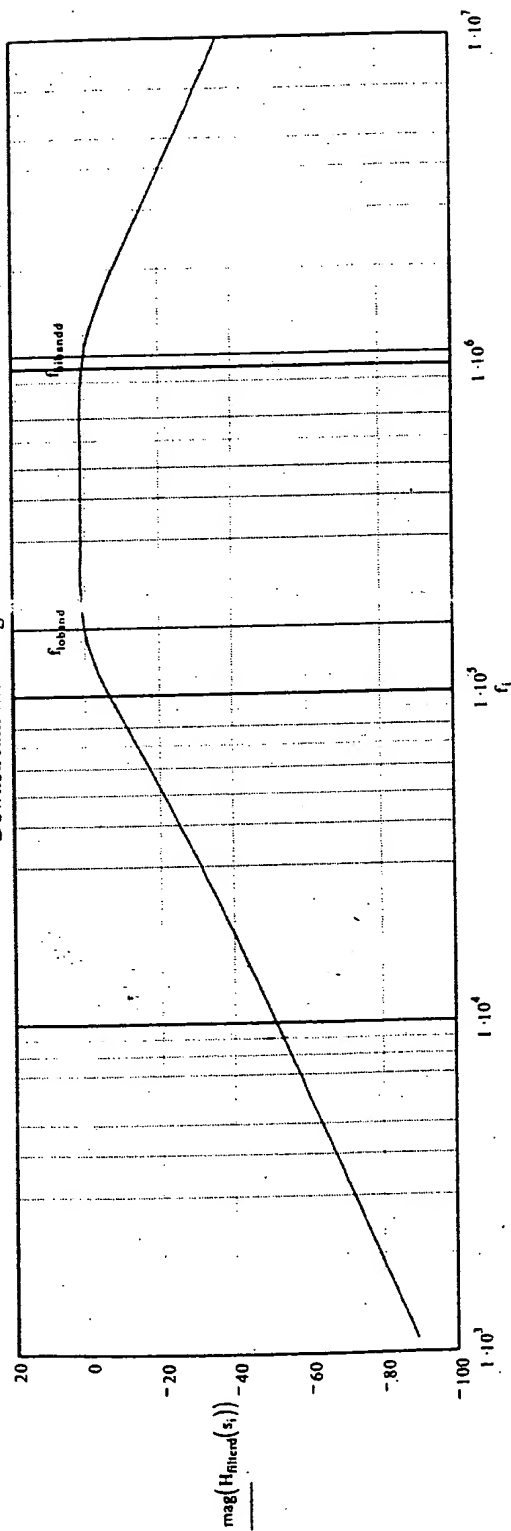


FIG. 10

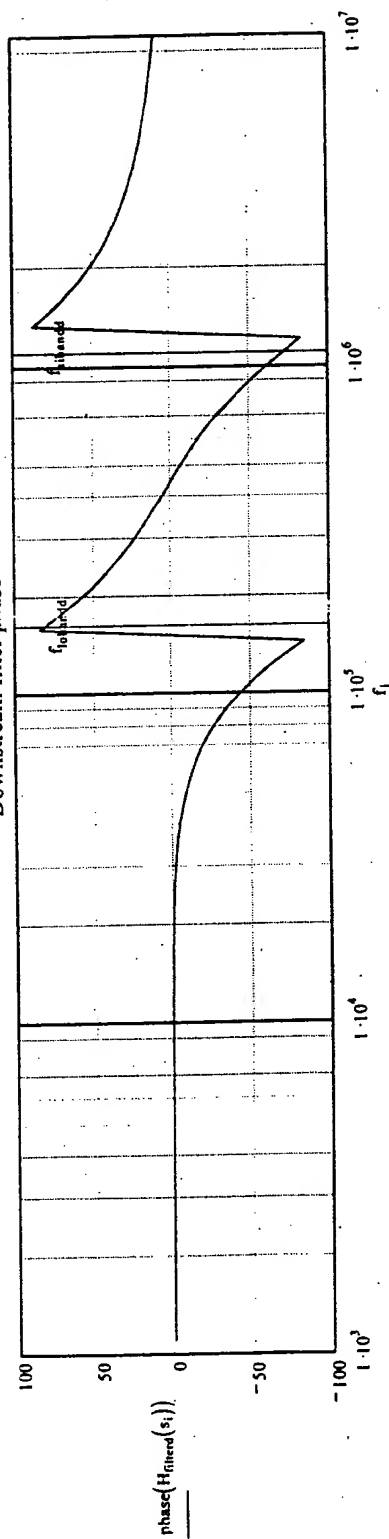


# Downstream Filter

Downstream filter mag: tude



Downstream filter phase



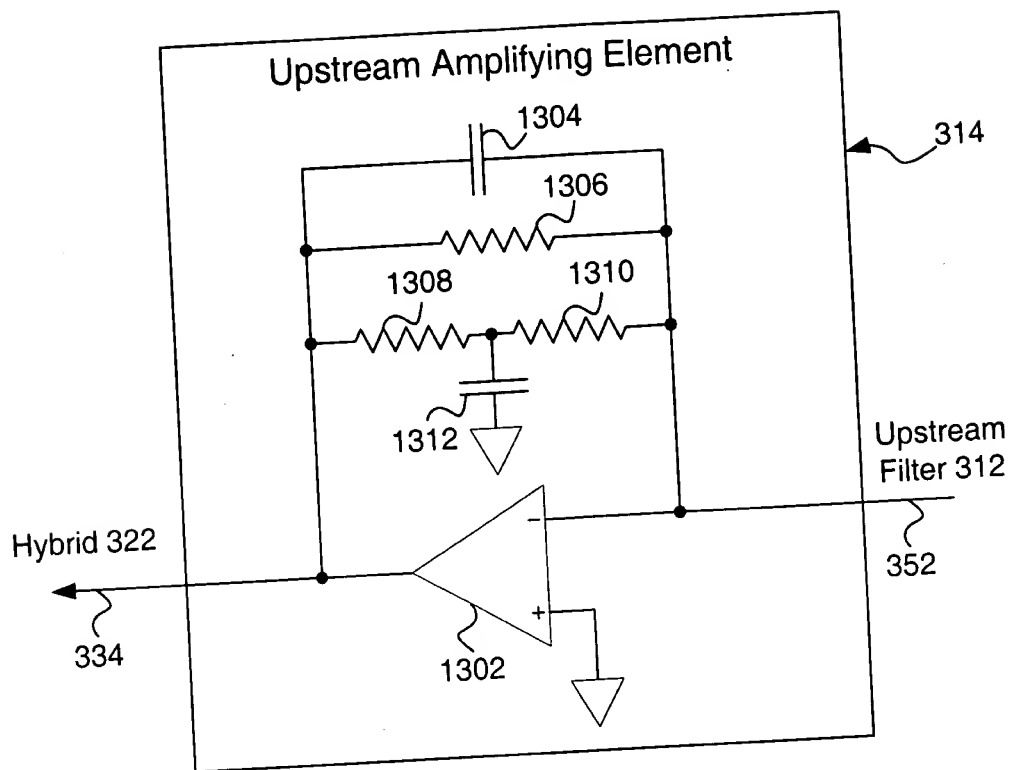


FIG. 13

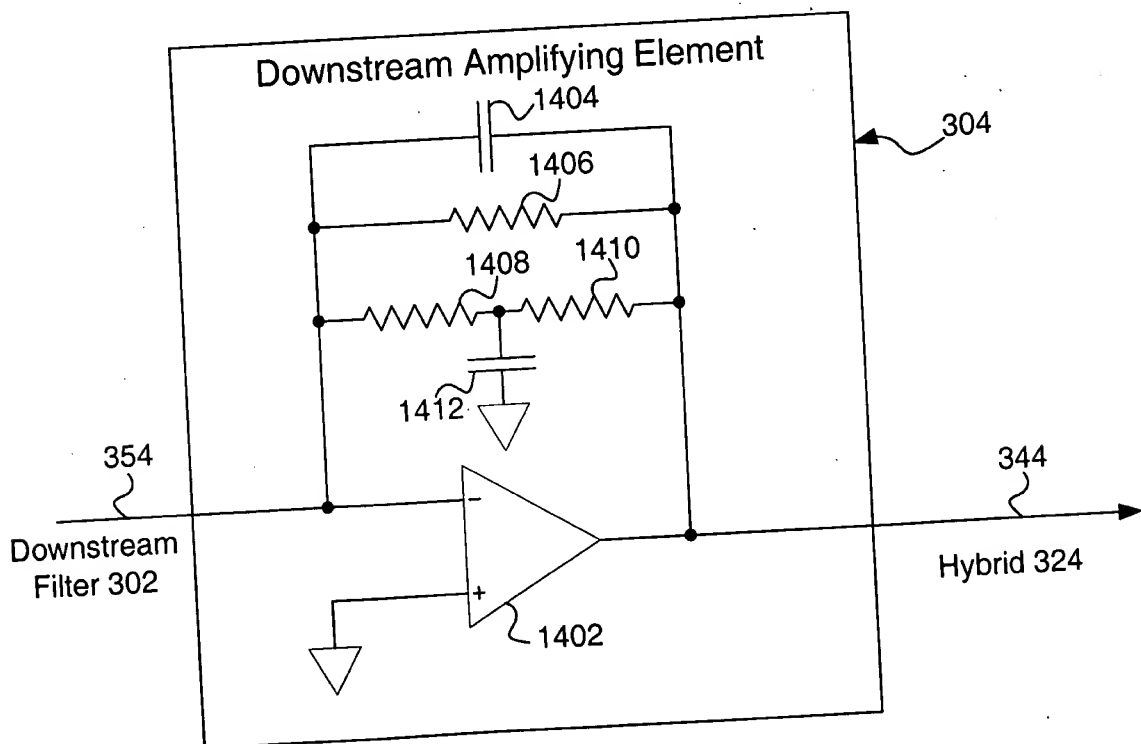


FIG. 14

# Upstream Equalizer

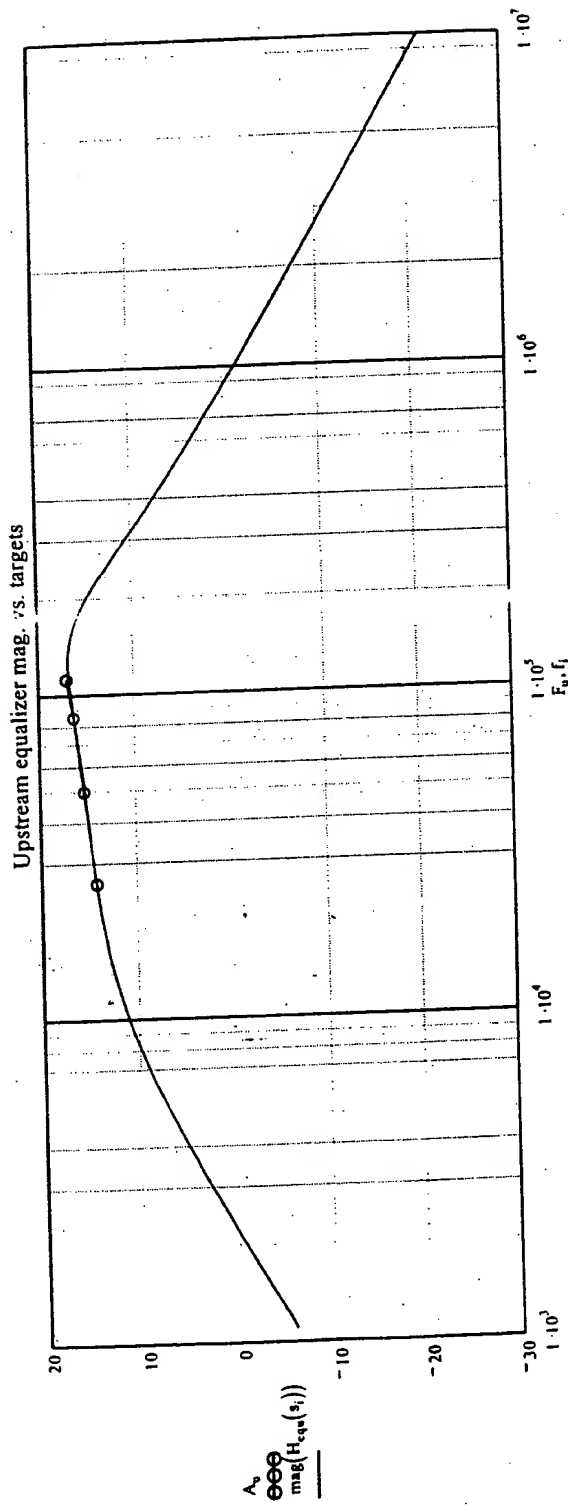


FIG. 15

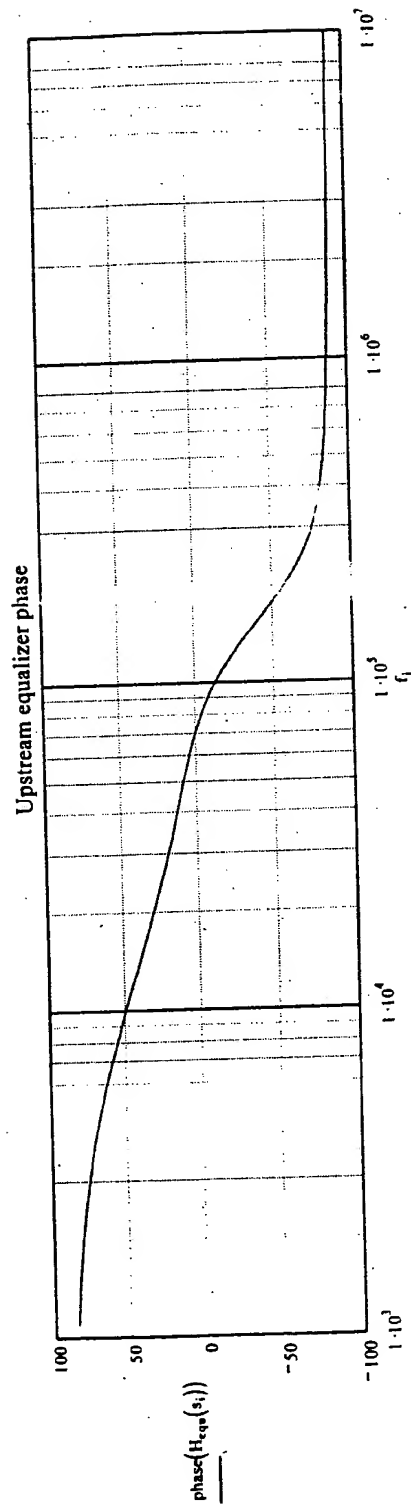


FIG. 16

# Downstream Equalizer

FIG. 17

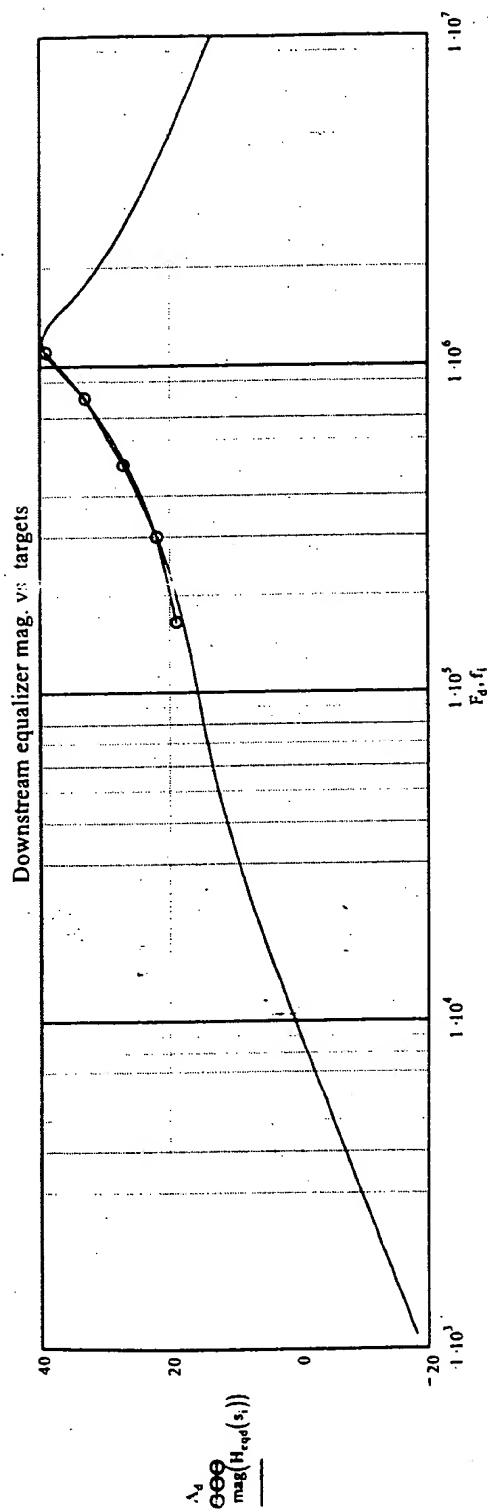


FIG. 17

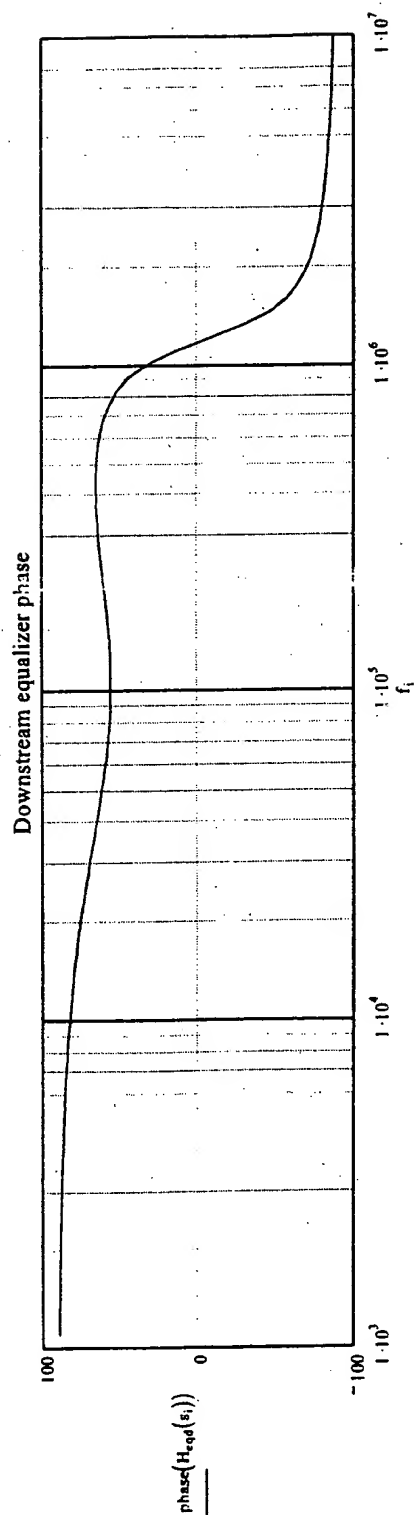


FIG. 18

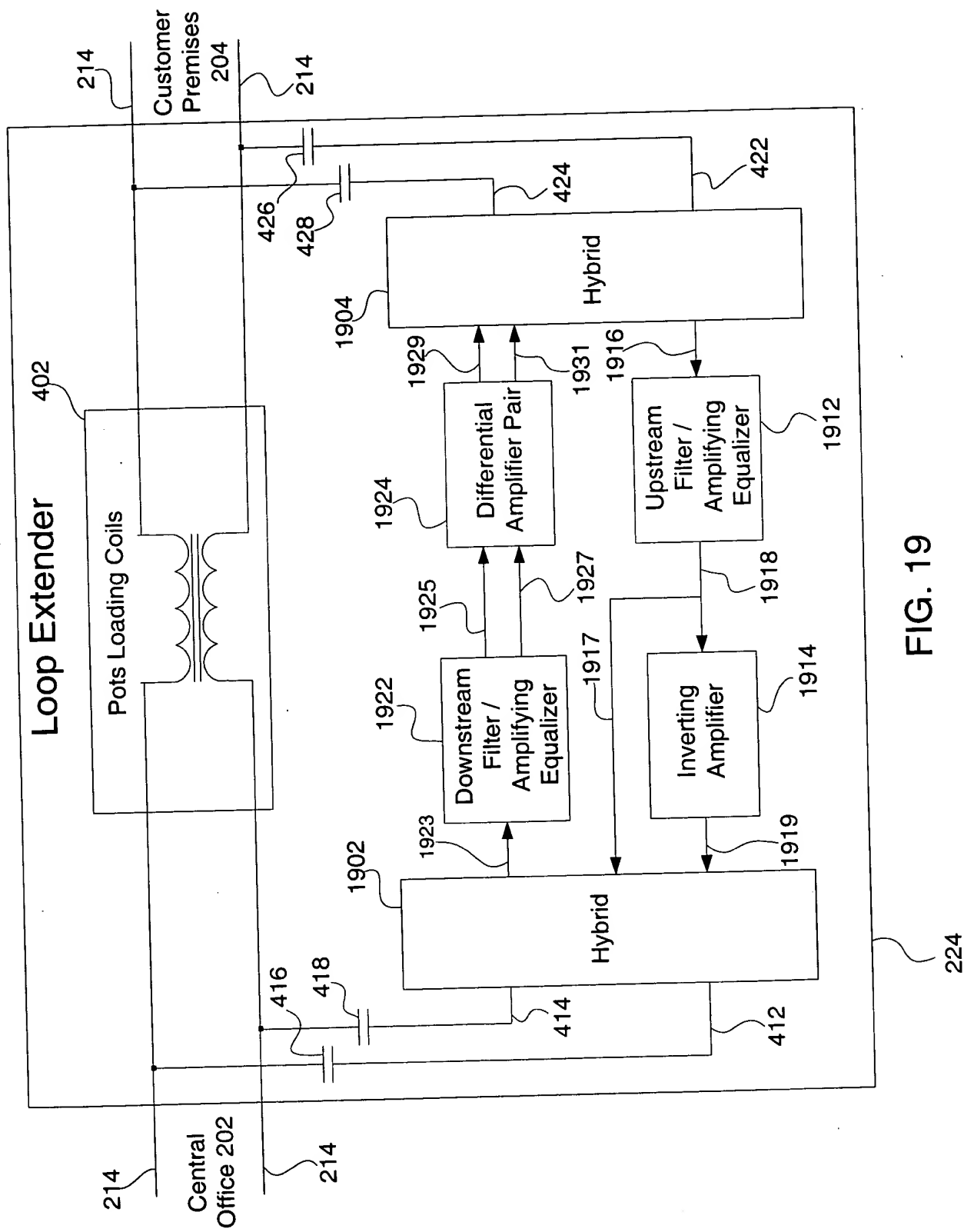


FIG. 19

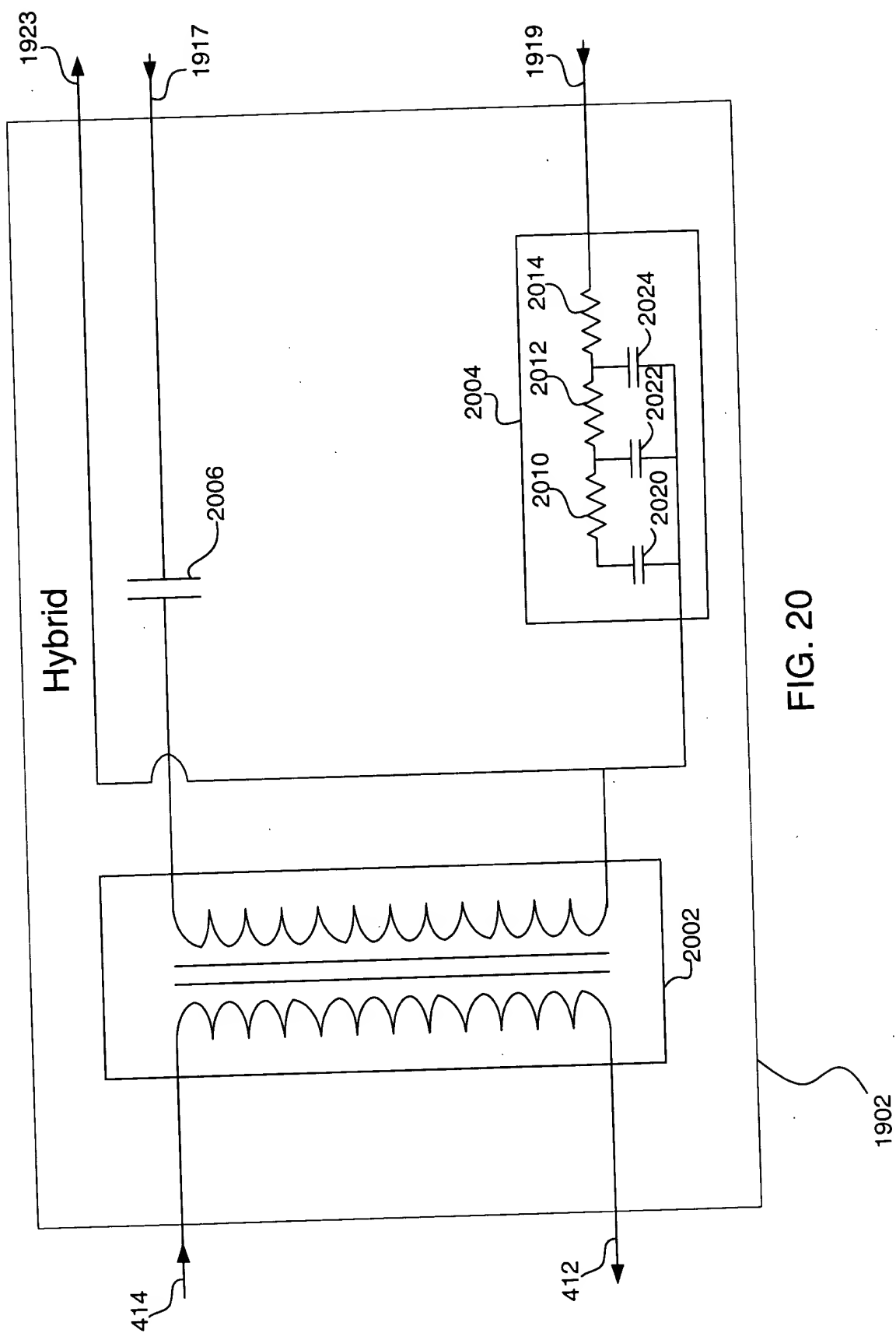


FIG. 20

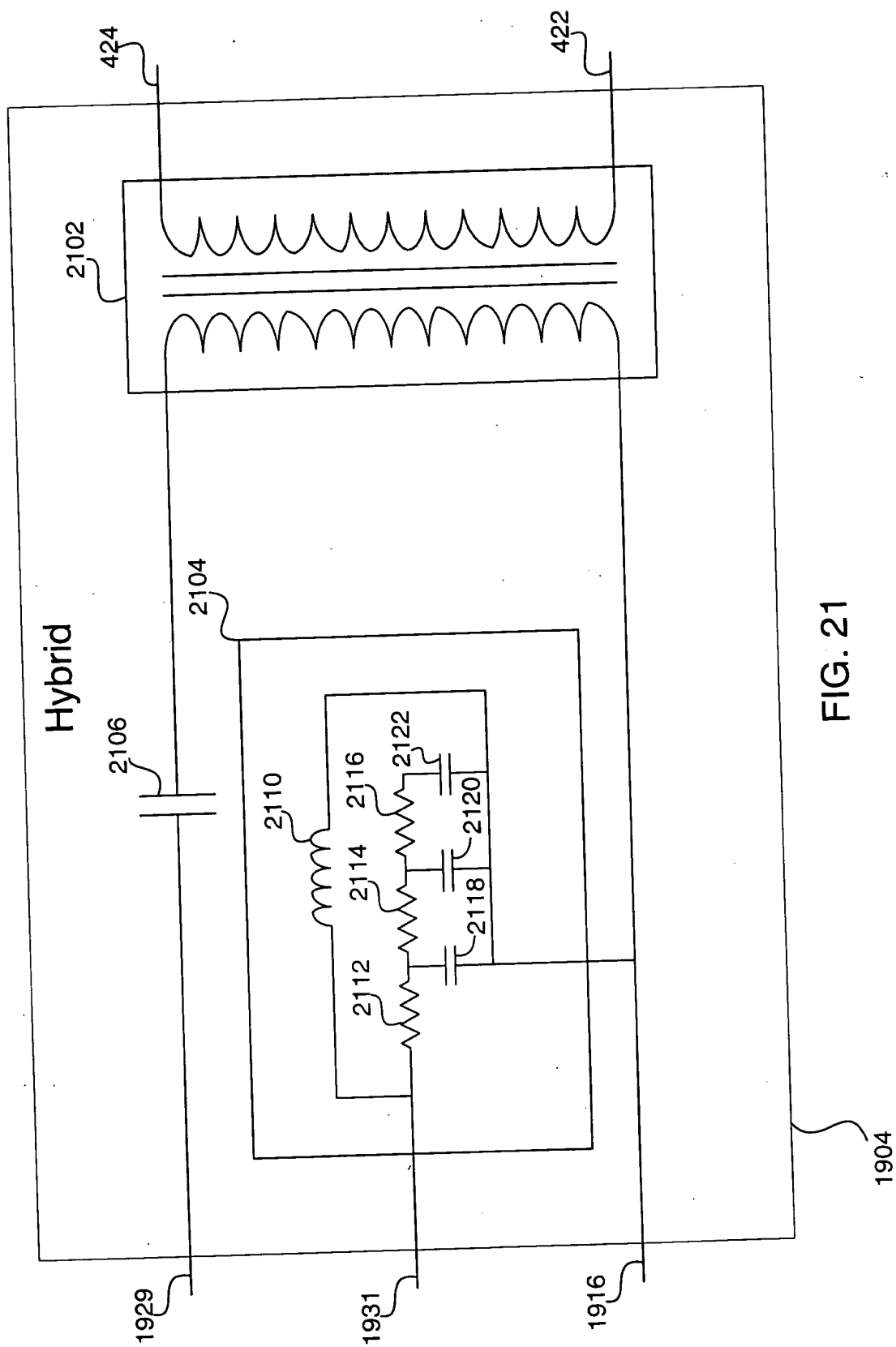


FIG. 21

FIG. 22

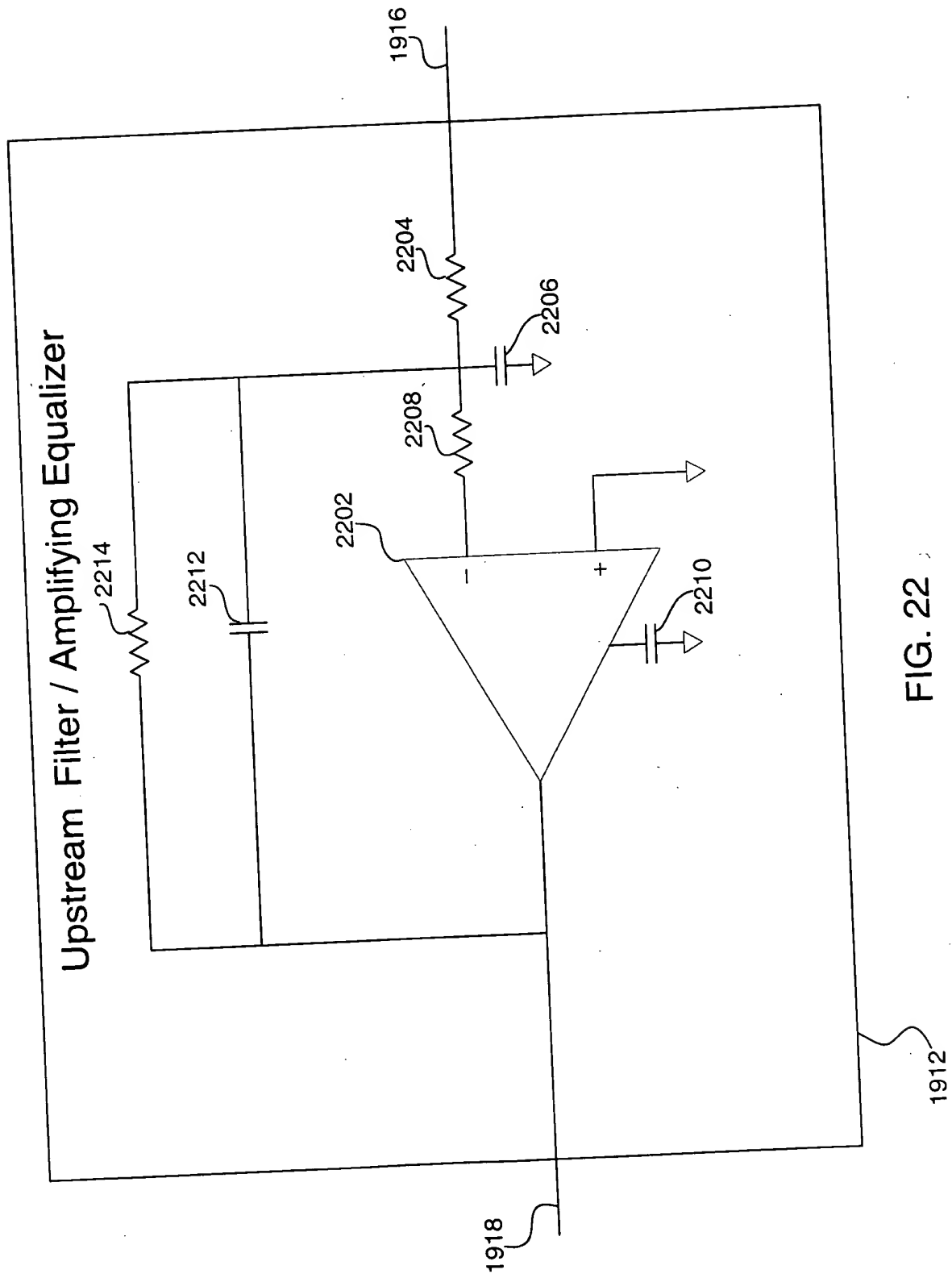
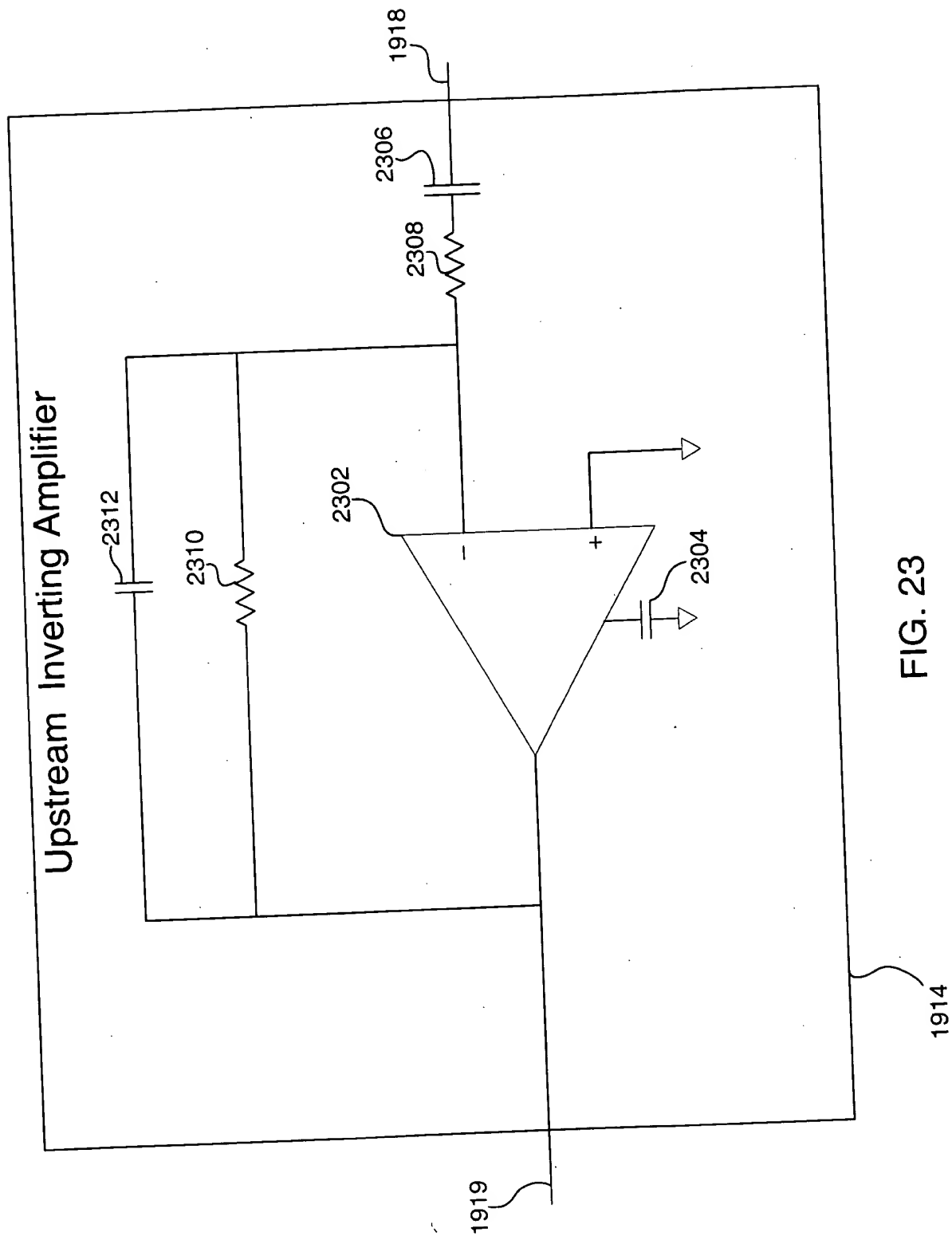
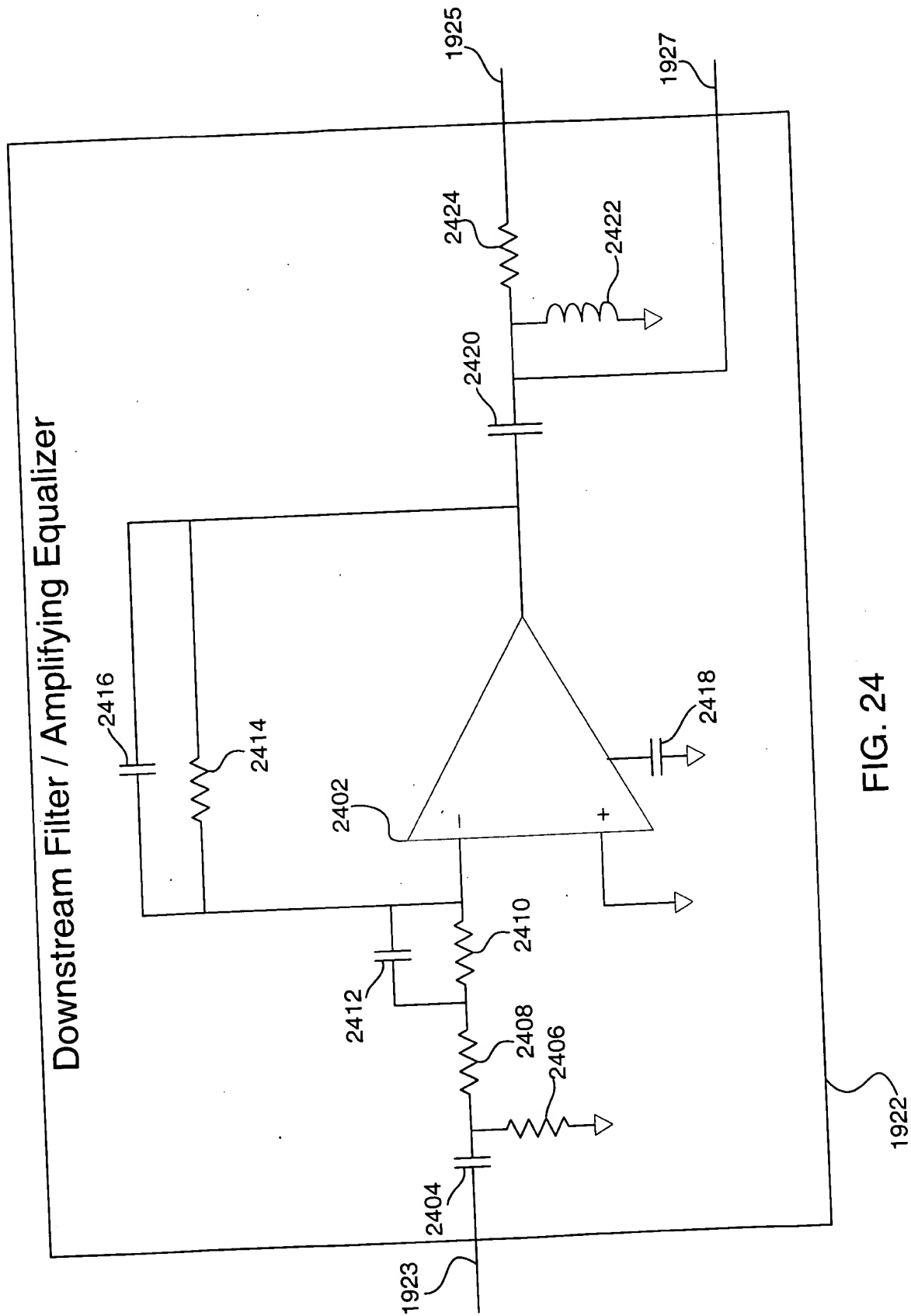


FIG. 22



FIG. 23





**FIG. 24**

FIG. 25

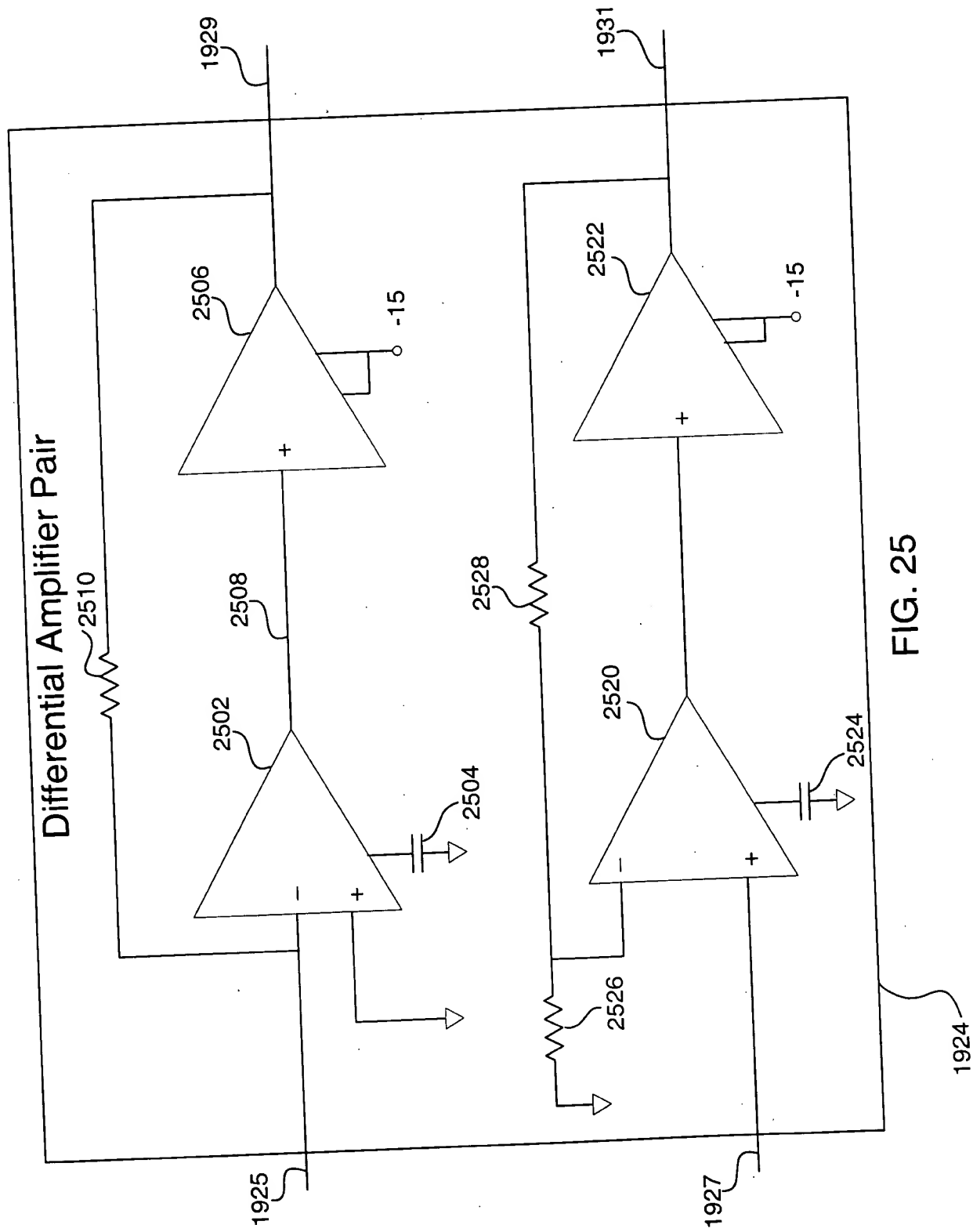


FIG. 25

FIGURE 26

actual:

$\begin{pmatrix} 6.37 \\ 7.374 \\ 8.754 \\ 7.48 \\ 5.935 \end{pmatrix}$

$$\text{mag}(H_{\text{eq}}(F_u \cdot 2 \cdot \pi \cdot j)) =$$

target:

$\begin{pmatrix} 5.4 \\ 7.1 \\ 8.1 \\ 8.5 \\ 8.7 \end{pmatrix}$

$$\Lambda_u + G_u =$$

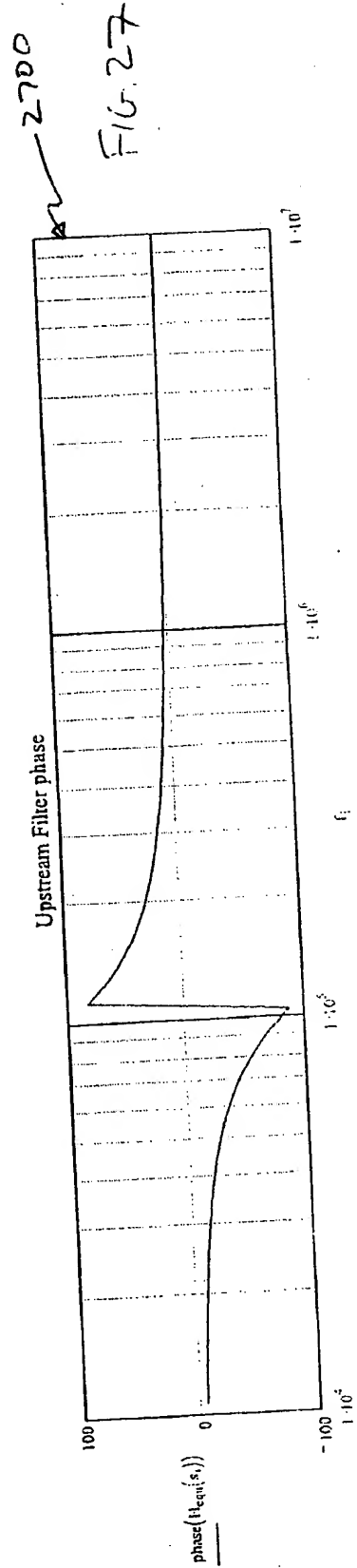
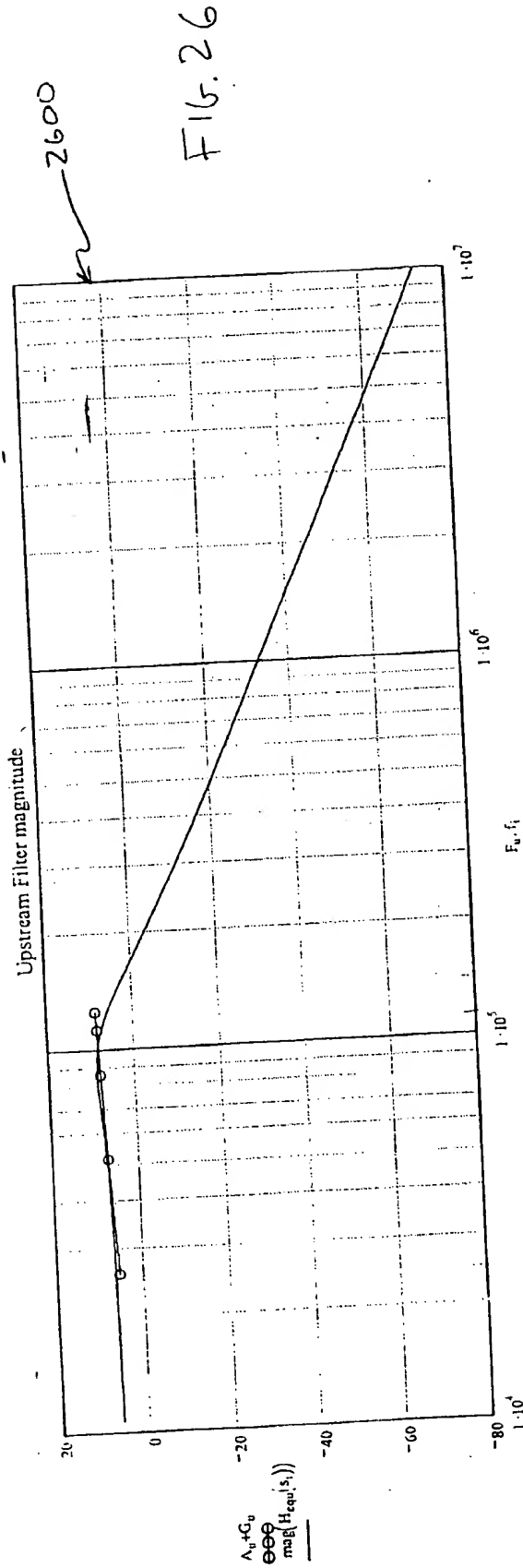


FIGURE 28

